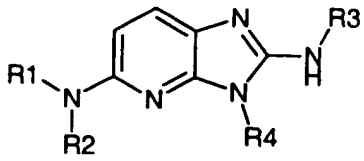
In the claims:

Claim 1 (currently amended) A compound of ~~general~~ the formula ~~(I)~~



(I)

in racemic, or enantiomeric form or any combinations of these forms and ~~in which~~ wherein:

R_1 and R_2 ~~represent~~ are, independently, selected from the group consisting of ~~the~~ hydrogen, ~~atom; a~~ $(C_1$-$C_8)$alkyl ~~radical~~ optionally substituted by hydroxy;, $(C_2$-$C_6)$alkenyl; a bicycloalkyl;, ~~or a radical of formula~~ $-(CH_2)_n$-X_1 ~~or~~ and -X-$(CH_2)_n$-X'_1;

X ~~represents~~ is selected from the group consisting of –C(O)- or –C(S)-NH-;

X_1 ~~represents a~~ is selected from the group consisting of $(C_1$-$C_6)$alkoxy, $(C_3$-$C_7)$cycloalkyl, adamantyl, heterocycloalkyl, aryl ~~or~~ and heteroaryl ~~radical~~,

The $(C_3$-$C_7)$cycloalkyl, heterocycloalkyl, aryl and heteroaryl ~~radicals~~ being optionally substituted by at least one member ~~or more identical or different substituents chosen from~~ selected from the group consisting of: -$(CH_2)_{n1}$-V_1-Y_1, halo, nitro and cyano;

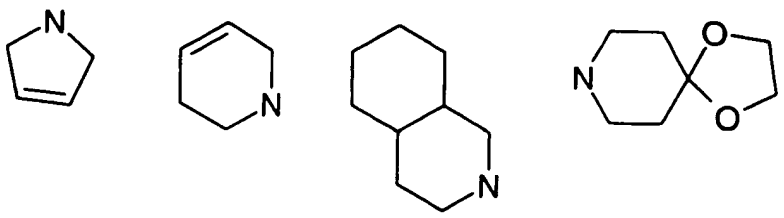
V_1 ~~represents~~ is selected from the group consisting of –O-,-S- or ~~a~~ covalent bond;

Y_1 ~~represents a~~ is $(C_1$-$C_6)$alkyl ~~radical~~ optionally substituted by at least one ~~or more identical or different~~ halo ~~radicals~~, or aryl;

n and n' ~~represent an~~ are integers from 0 to 6 and n_1 an integer from 0 to 2 (it being understood that when n is equal to 0, then X_1 ~~does~~ is not ~~represent the~~ alkoxy ~~radical~~);

X'_1 ~~represents the~~ is selected from the group consisting of hydrogen ~~atom~~, ~~a~~ $(C_1$-$C_6)$alkyl ~~radical~~ optionally substituted by at least one ~~or more identical or different~~ halo ~~radicals~~, $(C_3$-$C_7)$cycloalkyl; ~~or~~ and aryl optionally substituted by at least one member ~~or more identical or different substituents chosen from~~: halo, nitro, cyano, $(C_1$-$C_6)$alkyl-carbonyl, $(C_1$-$C_6)$alkyl optionally substituted by at least one ~~or more identical or different~~ halo ~~radicals~~, and $(C_1$-$C_6)$alkoxy optionally substituted by at least one ~~or more identical or different~~ halo ~~radicals~~;

or R_1 and R_2 form together, with the nitrogen atom to which they are attached, a heterobicycloalkyl or a heterocycloalkyl optionally substituted by at least one member selected from the group consisting of ~~or more identical or different substituents chosen from~~: hydroxy, $(C_1$-$C_6)$alkyl optionally substituted by hydroxy, $(C_1$-$C_6)$alkyl-carbonyl, $-(CH_2)_{n''}$-A, $-C(O)-NV_1'-Y_1'$, and heterocycloalkyl; or R_1 and R_2 form together ~~a radical of formula~~ a member selected from the group consisting of:



V_1'and Y_1' ~~represent~~ are, independently, ~~the~~ hydrogen ~~atom~~ or ~~a~~ (C_1-C_6)alkyl;

A ~~represents an~~ is aryl ~~radical~~ optionally substituted by at least one member selected from the group consisting of ~~or more identical or different substituents chosen from~~: halo, nitro, cyano, (C_1-C_6)alkyl optionally substituted by at least one member selected from the group ~~or more identical or different~~ halo ~~radicals~~, and (C_1-C_6)alkoxy optionally substituted by at least one ~~or more identical or different~~ halo ~~radicals~~;

n" ~~represents~~ is an integer from 0 to 2;

R_3 ~~represents~~ is selected from the group consisting of $-Z_3$, $-C(R_{z3})(R'_{z3})-(CH_2)_p-Z_3$ ~~or~~ and $-C(O)—Z'_3$;

R_{z3} and R'_{z3} ~~represent~~ are, independently, ~~the~~ hydrogen ~~atom~~ or ~~a~~ (C_1-C_6)alkyl ~~radical~~;

Z_3 ~~represents~~ is selected from the group consisting of Z_{3a}, Z_{3b}, Z_{3c}, Z_{3d}, ~~or~~ and Z_{3e};

Z_{3a} ~~represents a~~ is (C_1-C_6)alkyl or (C_2-C_6)alkenyl ~~radical~~;

Z_{3b} ~~represents a~~ is selected from the group consisting of (C_1-C_6)alkoxy,

C_1-C_6)alkylthio, C_1-C_6)alkylamino ~~or~~ and di((C_1-C_6)alkyl)amino ~~radical~~;

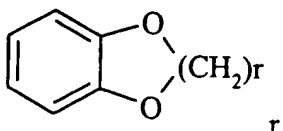
Z_{3c} ~~represents an~~ aryl or heteroaryl ~~radical~~; the aryl and heteroaryl ~~radicals~~ being optionally substituted by at least one ~~or more identical or different substituents chosen from~~ member selected from the group consisting of: halo, cyano, nitro, azido, oxy ~~or~~ and $-(CH_2)_{p'}-V_3-Y_3$;

V_3 ~~represents~~ is selected from the group consisting of –O-, -S-, -C(O)-, -C(O)-O-, -O(CO)-, $-SO_2-$, $-SO_2NH-$, $-NR'_3-SO_2-$, $-NR'_3-$, $-NR'_3-C(O)-NR'_3-$, -NH-C(O)-NR'_3- ~~or~~ and ~~a~~ covalent bond;

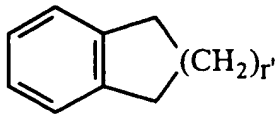
Y_3 ~~represents the~~ is selected from the group consisting of hydrogen, ~~atom or a~~ (C_1-C_6)alkyl ~~radicals~~ optionally substituted by at least one ~~or more identical or different substituents chosen from~~ member selected from the group consisting of: halo, nitro, (C_1-C_6)alkyl ~~and~~ (C_1-C_6)alkoxy; ~~or an~~ and aryl-(C_1-C_6)alkyl ~~radical~~ optionally substituted by at least one member selected from the group consisting of ~~or more identical or different substituents chosen from~~: halo, nitro, C_1-C_6)alkyl and (C_1-C_6)alkoxy;

Z_{3d} ~~represents a~~ is selected from the group consisting of (C_1-C_6)alkoxy-carbonyl, amino-carbonyl, (C_1-C_6)alkylamino-carbonyl and di((C_1-C_6)alkyl)amino-carbonyl ~~radical~~;

Z_{3e} ~~represents a~~ is selected from the group consisting of $(C_1\text{-}C_6)$alkyl-C(O)-NH-, $(C_3\text{-}C_7)$cycloalkyl, heteroalkyl, heterocycloalkyl, ~~radical or a radical of formula~~



r = 1, 2 and



r'= 1, 2

the $(C_3\text{-}C_7)$ cycloalkyl and heterocycloalkyl ~~radicals~~ being optionally substituted by at least one ~~or more identical or different~~ oxy or $(C_1\text{-}C_6)$alkyl ~~radicals~~,

Z'_3 ~~represents an~~ is aryl ~~radical~~ optionally substituted by at least one ~~or more identical or different substituents chosen from~~ member selected from the group consisting of: halo, nitro and $-(CH_2)_{p''}\text{-}V'_3\text{-}Y'_3$;

V'_3 ~~represents~~ is selected from the group consisting of -O-, -C(O)-, -C(O)-O-, -O(CO)-NR'_3-, -NR'_3-C(O)-, -NH-C(O)-NR'_3- ~~or~~ and ~~a~~ covalent bond;

Y'_3 ~~represents the~~ hydrogen ~~atom~~ or ~~a~~ $(C_1\text{-}C_6)$alkyl ~~radical~~ optionally substituted by at least one ~~or more identical or different~~ halo ~~radicals~~;

R'_3 ~~represents the~~ hydrogen ~~atom~~, is selected from the group consisting of ~~a~~ $(C_1\text{-}C_6)$alkyl ~~or~~ and $(C_1\text{-}C_6)$alkoxy ~~radical~~;

p, p' and p" ~~represent~~, are, independently, an integer from 0 to 6;

R_4 ~~represents a radical of formula~~ is $-(CH_2)_s-R'_4$

R'_4 ~~represents a~~ is heterocycloalkyl cotaining at least one nitrogen atom and optionally substituted by (C_1-C_6)alkyl or arakyl; ~~a~~ heteroaryl containing at least one nitrogen atom and optionally substituted by (C_1-C_6)alkyl; ~~or a radical of formula~~ and $-NW_4W'_4$

W_4 ~~represents the~~ is hydrogen ~~atom~~ or (C_1-C_8)alkyl;

W'_4 ~~represents a radical of formula~~ is $-(CH_2)_{s'}-Z_4$;

Z_4 ~~represents the~~ is selected from the group consisting of hydrogen ~~atom~~, (C_1-C_8)alkyl; (C_2-C_6)alkenyl; (C_3-C_7)cycloalkyl optionally substituted by at least one ~~or more identical or different~~ (C_1-C_6)alkyl ~~substituents~~; cyclohexene; heteroaryl~~;~~ and aryl optionally substituted by at least one ~~or more identical or different radicals chosen from~~ member selected from the group consisting of: $-(CH_2)_{s''}-V_4-Y_4$, halo and nitro;

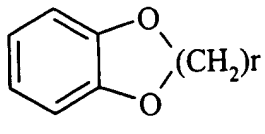
V_4 ~~represents~~ is selected from the group consisting of –O-, -S-, -NH-C(O)-, $-NV_4'-$ ~~or a~~ and covalent bond;

Y_4 ~~represents a~~ is hydrogen ~~atom~~ or ~~a~~ $(C_1\text{-}C_6)$alkyl ~~radical~~ optionally s substituted by at least one ~~or more identical or different~~ halo ~~radicals~~;

V_4' ~~represents a~~ is hydrogen ~~atom~~ or ~~a~~ $(C_1\text{-}C_6)$alkyl;

s" ~~represents~~ is an integer from 0 to 4;

or Z_4 ~~represents a radical of formula~~ is



r = 1, 2

s and s' ~~represent~~, are, an integer from 0 to 6;

~~or~~ and a pharmaceutically acceptable salt thereof.

Claim 2(currently amended) A compound ~~according to~~ of Claim 1, ~~characterized in that~~ wherein

R_1 and R_2 ~~represent~~ are, independently, selected from the group consisting of ~~the~~ hydrogen ~~atom~~, ~~a~~ $(C_1\text{-}C_8)$alkyl, ~~a~~ bicycloalkyl, ~~radical or a radical of formula~~ $-(CH_2)_n\text{-}X_1$ ~~or~~ and $-X\text{-}(CH_2)_n\text{-}X'_1$;

X ~~represents~~ –C(O)- or –C(S)-NH-;

X_1 ~~represents a~~ is selected from the group consisting of $(C_1\text{-}C_6)$alkoxy, $(C_3\text{-}C_7)$cycloalkyl ~~radical~~ optionally substituted by ~~a~~ $(C_1\text{-}C_6)$alkyl, ~~or~~ and heteroaryl;

X'_1 ~~represents the~~ is selected from the group consisting of hydrogen ~~atom~~, ~~a~~ (C_1-C_6)alkyl ~~radical~~ optionally substituted by at least one ~~or more identical or different~~ halo ~~radicals~~, (C_3-C_7)cycloalkyl or aryl optionally substituted by ~~a~~ (C_1-C_6)alkyl-carbonyl;

or R_1 and R_2 form together, with the nitrogen atom to which they are attached, are heterobicycloalkyl or a heterocycloalkyl optionally substituted by at least one ~~or more identical or different substituents chosen from~~ member selected from the group consisting of: (C_1-C_6)alkyl, (C_1-C_6)alkyl-carbonyl and $-(CH_2)_{n''}-A$;

A ~~represents an~~ is aryl ~~radical~~ optionally substituted by at least one ~~or more identical or different substituents chosen from~~: halo ~~and~~ or (C_1-C_6)alkyl;

n" ~~represents~~ is an integer from 0 to 1;

R_4 ~~represents a radical of formula~~ is $-(CH_2)_s-R'_4$

R'_4 ~~represents a~~ is heterocycloalkyl containing at least one nitrogen atom and optionally substituted by (C_1-C_6)alkyl; or ~~a radical of formula~~ $-NW_4W'_4$

W_4 ~~represents the~~ is hydrogen ~~atom~~, ~~a~~ (C_1-C_8)alkyl;

W'_4 ~~represents a radical of formula~~ is $-(CH_2)_{s'}-Z_4$;

Z_4 ~~represents the~~ is selected from the group consisting of hydrogen ~~atom~~, $(C_1$-$C_8)$alkyl ~~or~~ and aryl optionally substituted by at least one ~~or more identical or different radicals chosen from~~: $-(CH_2)_{s''}-V_4-Y_4$;

V_4 ~~represents~~ is -O-;

Y_4 ~~represents a~~ is $(C_1$-$C_6)$alkyl ~~radical~~ optionally substituted by at least one ~~or more identical or different~~ halo ~~radicals~~;

s" ~~represents~~ is an integer from 0 to 4;

s and s' ~~represent~~ are, independently, an integer from 1 to 4;

or a pharmaceutically acceptable salt thereof.

Claim 3 (currently amended) A compound ~~according to~~ of Claim 2, ~~characterized in that~~ wherein it comprises at least one of the following characteristics:

- ~~the~~ cycloalkyl ~~radical is~~ chosen from cyclopropyl, cyclobutyl and cyclohexyl;
- ~~the~~ bicycloalkyl ~~radical~~ is bicyclo[2,2,1]heptane;
- ~~the~~ heterobicycloalkyl is 7-aza-biclyclo[2,2,1]heptane;
- ~~the~~ aryl ~~radical~~ is ~~the~~ phenyl ~~radical~~;
- ~~the~~ heteroaryl ~~radical~~ is ~~the~~ furyl ~~radical~~;
- ~~the~~ heterocycloalkyl is chosen from piperidine, morpholine and piperazine;

- ~~the~~ heterocycloalkyl is chosen from piperidine, morpholine and piperazine;

or a pharmaceutically acceptable salt thereof.

Claim 4 (currently amended) A compound ~~according to one~~ of Claims 1 ~~to 2, characterized in that~~ wherein

R_1 and R_2 ~~represent~~ are, independently, ~~the~~ hydrogen ~~atom~~, ~~a~~ $(C_1\text{-}C_6)$alkyl ~~radical~~ or ~~a radical of formula~~ $-(CH_2)_n\text{-}X_1$ or $-X\text{-}(CH_2)_{n'}\text{-}X'_1$;

X ~~represents~~ is –C(O)-;

X_1 ~~represents a~~ is $(C_3\text{-}C_7)$cycloalkyl ~~radical~~;

X'_1 ~~represents the~~ is hydrogen ~~atom~~ or ~~a~~ $(C_1\text{-}C_6)$cycloalkyl ~~radical~~;

n ~~represents~~ is 0 or 1; n' ~~represents~~ is an integer from 0 to 5;

or R_1 and R_2 form together, with the nitrogen atom to which they are attached, are heterocycloalkyl optionally substituted by at least one ~~or more identical or different~~ $(C_1\text{-}C_6)$alkyl ~~substituents~~; or a pharmaceutically acceptable salt thereof.

Claim 5 (currently amended) A compound ~~according to~~ of Claim 4, ~~characterized in that~~ wherein the $(C_3\text{-}C_7)$cycloalkyl ~~radical represented by~~ of X_1 and X'_1 is chosen from cyclopropyl, cyclobutyl and cyclohexyl; and ~~the~~ heterocycloalkyl that

together form R_1 and R_2, is ~~the~~ piperidine ~~ring~~; or a pharmaceutically acceptable salt thereof.

Claim 6 (currently amended) A compound ~~according to one~~ of Claim 1 ~~to 2 and 4 to 5, characterized in that~~ wherein

R_4 ~~represents a radical of formula~~ is $-(CH_2)_s-R'_4$

R'_4 ~~represents a~~ is heterocycloalkyl containing at least one nitrogen atom and optionally substituted by (C_1-C_6)alkyl; or ~~a radical of formula~~ $-NW_4W'_4$

W_4 ~~represents the~~ is hydrogen ~~atom~~ or (C_1-C_8)alkyl;

W'_4 ~~represents a radical of formula~~ is $-(CH_2)_{s'}-Z_4$;

Z_4 ~~represent the~~ is hydrogen ~~atom~~ or (C_1-C_8)alkyl;

s and s' ~~represent~~ are, independently, an integer from 2 to 4;

or a pharmaceutically acceptable salt thereof.

Claim 7 (currently amended) A compound ~~according to~~ of Claim 6, ~~characterized in that~~ wherein the heterocycloalkyl ~~represented by~~ of R'_4 is ~~chosen from~~: piperidine ~~and~~ or morpholine; or a pharmaceutically acceptable salt thereof.

Claim 8 (currently amended) A compound ~~according to one of the preceding claims, characterized in that~~ of Claim 1 wherein R_3 ~~represents~~ is –C(O)—Z'_3

Z'_3 ~~represents an~~ aryl ~~radical~~ optionally substituted by at least one ~~or more identical or different substituents chosen from~~ member selected from the group consisting of halo and $-(CH_2)_{p"}-V'_3-Y'_3$;

V'_3 ~~represents~~ is -O- or ~~a~~ covalent bond;

Y'_3 ~~represents the~~ is hydrogen ~~atom~~ or ~~a~~ (C_1-C_6)alkyl ~~radical~~ optionally substituted by at least one ~~or more identical or different~~ halo ~~radicals~~;

p" ~~represents~~ an integer from 0 to 2;

or a pharmaceutically acceptable salt thereof.

Claim 9 (currently amended) A compound ~~according to one of the preceding claims, characterized in that~~ of Claim 1 wherein R_3 ~~represents~~ is selected from the group consisting of Z_3, $-C(R_{z3})(R'_{z3})-Z_3$ ~~or~~ and $-C(R_{z3})(R'_{z3})-(CH_2)_p-Z_3$; or a pharmaceutically acceptable salt thereof.

Claim 10 (currently amended) A compound ~~according to~~ of Claim 9, ~~characterized in that~~ wherein R_3 ~~represents~~ is $-Z_3$ and Z_3 ~~represents~~ is selected from the group consisting of Z_{3b}, Z_{3c}, Z_{3e}; or a pharmaceutically acceptable salt thereof.

Claim 11 (currently amended) A compound ~~according to~~ of Claim 10, ~~characterized in that~~ wherein Z_3 ~~represents~~ is Z_{3c} and Z_{3c} ~~represents an~~ is aryl ~~radical~~; or a pharmaceutically acceptable salt thereof.

Claim 12 (currently amended) A compound ~~according to~~ of Claim 11, ~~characterized in that~~ wherein Z_{3c} ~~represents a~~ is phenyl ~~radical~~ substituted by at least one ~~or more identical or different substituents chosen from~~ member selected from the group consisting of : halo, nitro ~~or~~ and $-(CH_2)_{p'}-V_3-Y_3$;

V_3 ~~represents~~ is selected from the group consisting of -O-, -S-, -C(O)-, -C(O)-O-, $-SO_2NH-$, $-NR'_3-C(O)-$, $-C(O)-NR'_3-$ ~~or~~ and ~~a~~ covalent bond;

R'_3 ~~represents the~~ is hydrogen ~~atom~~;

Y_3 ~~represents the~~ is hydrogen ~~atom~~ or ~~a~~ (C_1-C_6)alkyl ~~radical~~ optionally substituted by at least one ~~or more identical or different~~ halo ~~radicals~~; or a pharmaceutically acceptable salt thereof.

Claim 13 (currently amended) A compound ~~according to~~ of Claim 11, ~~characterized in that~~ wherein Z_{3c} ~~represents a~~ is phenyl ~~radical~~ substituted by at least one ~~or more identical or different substituents of~~ formula $-(CH_2)_{p'}-V_3-Y_3$;

V_3 ~~represents~~ is selected from the group consisting of -C(O)-, -C(O)-O-, ~~or~~ and

-C(O)-NR'$_3$-;

R'$_3$ ~~represents the~~ is hydrogen ~~atom~~;

Y_3 ~~represents the~~ is hydrogen ~~atom~~ or ~~a~~ (C_1-C_6)alkyl ~~radical~~; or a pharmaceutically acceptable salt thereof.

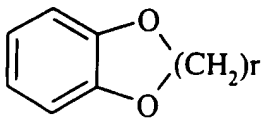
Claim 14 (currently amended) A compound ~~according to~~ of Claim 9, ~~characterized in that~~ wherein R_3 ~~represents~~ is -$C(R_{z3})(R'_{z3})$-Z_3 and Z_3 ~~represents~~ is Z_{3d} or Z_{3e}; or a pharmaceutically acceptable salt thereof.

Claim 15 (currently amended) A compound ~~according to~~ of Claim 9, ~~characterized in that~~ wherein R_3 ~~represents~~ is -$C(R_{z3})(R'_{z3})$-$(CH_2)_p$-Z_3 and Z_3 ~~represents~~ is Z_{3c}, Z_{3d} or Z_{3e}; or a pharmaceutically acceptable salt thereof.

Claim 16 (currently amended) A compound ~~according to~~ of Claim 15, ~~characterized in that~~ wherein Z_3 ~~represents~~ is Z_{3d} or Z_{3e};

Z_{3d} ~~represents a~~ is (C_1-C_6)alkoxy-carbonyl or amino-carbonyl ~~radical~~;

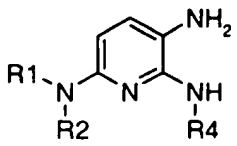
Z_{3e} ~~represents a~~ is selected from the group consisting of (C_1-C_6)alkyl-C(O)-NH-, heterocycloalkyl ~~radical being~~ optionally substituted by ~~an~~ oxy ~~radical~~, or ~~a radical of formula~~



r = 1, 2;

or pharmaceutically acceptable salt thereof.

Claim 17 (currently amended) A process for the preparation of a compound of Claim 1 comprising reacting a ~~formula (I) according to one of the preceding claims characterized in that the~~ compound of the ~~general~~ formula:



~~in which~~ wherein R_1, R_2, R_4 have the meaning ~~indicated in~~ of Claim 1, ~~is treated~~ with an isothiocyanate of the ~~general~~ formula $R_3N=C=S$ in which R_3 has the meaning indicated in Claim 1, in the presence of a coupling agent or of yellow mercury (II) oxide in the presence of ~~sulphur~~ sulfur, for a duration of 3 to 48 hours, in a protic or aprotic solvent, at a temperature of 50 to 80°C.

Cancel **Claims 18** to **22** and add the following **Claims 23** to **27**.

Claim 23. (new) A pharmaceutical composition for treating weight disorders comprising an effective amount of a compound of Claim 1 sufficient to treat said disorder and an inert pharmaceutical carrier.

Claim 24 (new) A method of treating a condition selected from the group consisting of weight disorders, mental disorders, pain and sexual activity disorders in warm-blooded animals comprising administering to warm-blooded animals in need thereof an amount of a compound of Claim 1 sufficient to treat said condition.

Claim 25 (new) The method of Claim 24 wherein the condition being treated is anxiety and depression.

Claim 26 (new) The method of Claim 24 wherein the condition being treated is pain.

Claim 27 (new) The method of Claim 26 wherein the pain is neuropathic pain.